noshow	1641
	Changed a file from non-ASCII to ASCII
	Changed the margins in cases where the sequence text was "wrapped" do to the next line.
	Edited a format error in the Current Application Data section, specifically
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" tield. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
d	Other: added 62207 idestifiere in Seg. 19-21
•	· · · · · · · · · · · · · · · · · · ·
• • • • • • • • • • • • • • • • • • •	

*Examin r: The above corrections must be communicated to the applicant in the first Offic Action. DO NOT send a copy of this form. 3/1/95

RECEIVED

MAY 3 0 2000

TECH CENTER 1600/2900

RAW SEQUENCE LISTING DATE: 05/15/2000 PATENT APPLICATION: US/09/449,631 TIME: 16:03:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05152000\I449631.raw

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4 <110> APPLICANT: Renner, Wolfgang A.
          Hennecke, Frank
          Nieba, Lars
 7 Bachmann, Martin
9 <120> TITLE OF INVENTION: Ordered Molecular Presentation of Antigens, Method of
10
          Preparation and Use
12 <130> FILE REFERENCE: 1700.0030002
14 <140> CURRENT APPLICATION NUMBER: US 09/449,631
15 <141> CURRENT FILING DATE: 1999-11-30
17 <150> PRIOR APPLICATION NUMBER: US 60/110,414
18 <151> PRIOR FILING DATE: 1998-11-30
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21 <151> PRIOR FILING DATE: 1999-07-08
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33 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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45 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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71 <400> SEQUENCE: 4
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RAW SEQUENCE LISTING DATE: 05/15/2000 PATENT APPLICATION: US/09/449,631 TIME: 16:03:49 Input Set : A:\Pto.amc Output Set: N:\CRF3\05152000\I449631.raw 75 <210> SEQ ID NO: 5 76 <211> LENGTH: 47 77 <212> TYPE: DNA 78 <213> ORGANISM: Artificial Sequence 80 <220> FEATURE: 81 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 83 <400> SEQUENCE: 5 84 ccttctttaa cggtggttac ctgctggcaa ccaacgtggt tcatgac 87 <210> SEQ ID NO: 6 88 <211> LENGTH: 40 89 <212> TYPE: DNA 90 <213> ORGANISM: Artificial Sequence 92 <220> FEATURE: 93 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 95 <400> SEQUENCE: 6 96 aagcatgetg cacgegtgtg eggtggtegg ategeeegge 40 99 <210> SEQ ID NO: 7 100 <211> LENGTH: 90 101 <212> TYPE: DNA

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140 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING
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                 PATENT APPLICATION: US/09/449,631
                                                           TIME: 16:03:49
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174 <211> LENGTH: 15
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence: Modified ribosome
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188 <212> TYPE: PRT
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192 <223> OTHER INFORMATION: Description of Artificial Sequence: signal peptide
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198 Thr Val Ala Gln Ala
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205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence: modified Fos
209
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215 Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu
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                                      25
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RAW SEQUENCE LISTING
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                       PATENT APPLICATION: US/09/449,631
                                                                  TIME: 16:03:49
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                       Output Set: N:\CRF3\05152000\I449631.raw
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      227 <220> FEATURE:
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      236 <211> LENGTH: 6
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      238 <213> ORGANISM: Artificial Sequence
      240 <220> FEATURE:
     241 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
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     245 1
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     251 <213> ORGANISM: Artificial Sequence
     253 <220> FEATURE:
     254 <223> OTHER INFORMATION: Description of Artificial Sequence: Fos fusion construct
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     258 ggtttcgcta ccgtagcgca ggcctgggtg ggggcggccg cttctggtgg ttgcggtggt 120
259 ctgaccgaca ccctgcaggc ggaaaccgac caggtggaag acgaaaaatc cgcgctgcaa 180
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     261 ggtggttgct aagctt
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266 <212> TYPE: PRT
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                                                10
    275 Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile
    276
                      20
                                          25
                                                                30
    278 Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala
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    281 His Gly Gly Cys
    282
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RAW SEQUENCE LISTING DATE: 05/15/2000 PATENT APPLICATION: US/09/449,631 TIME: 16:03:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05152000\1449631.raw

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      297 <222> LOCATION: (22)..(240)
      299 <400> SEQUENCE: 20
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302 1 5 10
      304 gca ctg gct ggt ttc gct acc gta gcg cag gcc tgc ggt ggt ctg acc
      305 Ala Leu Ala Gly Phe Ala Thr Val Ala Gln Ala Cys Gly Gly Leu Thr
306 20 25
      308 gac acc ctg cag gcg gaa acc gac cag gtg gaa gac gaa aaa tcc gcg
309 Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala
      310
                         30
                                                35
     312 ctg caa acc gaa atc gcg aac ctg ctg aaa gaa aaa gaa aag ctg gag
313 Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu
314 45 50 55
      316 ttc atc ctg gcg gca cac ggt ggt tgc ggt ggt tct gcg gcc gct
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     317 Phe Ile Leu Ala Ala His Gly Gly Cys Gly Gly Ser Ala Ala Ala 318 60 65 70
     320 gggtgtgggg atatcaagct t
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     335 Thr Val Ala Gln Ala Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu
336 20 25 30
     338 Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala
339 35 40 45
     341 Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His 342 \phantom{-}50\phantom{0} \phantom{-}55\phantom{0}
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     345 65
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     354 <220> FEATURE:
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VERIFICATION SUMMARY DATE: 05/15/2000 PATENT APPLICATION: US/09/449,631 TIME: 16:03:50

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05152000\1449631.raw

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M. Mosher/

1641

RAW SEQUENCE LISTING DATE: 05/09/2000 PATENT APPLICATION: US/09/449,631 TIME: 12:07:40

Input Set : A:\seq listing.txt

Output Set: N:\CRF3\05092000\I449631.raw

Does Not Comply
Corrected Diskette Needed

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4 <110> APPLICANT: Renner, Wolfgang A.
             Hennecke, Frank
              Nieba, Lars
              Bachmann, Martin
       <120> TITLE OF INVENTION: Ordered Molecular Presentation of Antigens, Method of
             Preparation and Use
     10
    12 <130> FILE REFERENCE: 1700.0030002
     14 <140> CURRENT APPLICATION NUMBER: US 09/449,631
C--> 15 <141> CURRENT FILING DATE: 1999-01-30
     17 <150> PRIOR APPLICATION NUMBER: US 60/110,414
     18 <151> PRIOR FILING DATE: 1998-11-30
     20 <150> PRIOR APPLICATION NUMBER: US 60/142,778
     21 <151> PRIOR FILING DATE: 1999-07-08
     23 <160> NUMBER OF SEQ ID NOS: 88
     25 <170> SOFTWARE: PatentIn Ver. 2.1
     27 <210> SEQ ID NO: 1
     28 <211> LENGTH: 41
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     30 <213> ORGANISM: Artificial Sequence
     32 <220> FEATURE:
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     60 ccatgaggcc tacgataccc
     63 <210> SEQ ID NO: 4
     64 <211> LENGTH: 25
     65 <212> TYPE: DNA
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     68 <220> FEATURE:
     69 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
     71 <400> SEQUENCE: 4
     72 ggcactcacg gcgcgcttta caggc
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RAW SEQUENCE LISTING DATE: 05/09/2000 PATENT APPLICATION: US/09/449,631 TIME: 12:07:40

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93 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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109 catcgtctgc accagctggc ctttgacacc
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115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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126 <211> LENGTH: 31
127 <212> TYPE: DNA
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134 cccgaattcc tagaagccac agctgccctc c
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 RAW SEQUENCE LISTING
 DATE: 05/09/2000

 PATENT APPLICATION:
 US/09/449,631
 TIME: 12:07:40

Input Set : A:\seq listing.txt
Output Set: N:\CRF3\05092000\1449631.raw

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186 <210> SEQ ID NO: 14
187 <211> LENGTH: 21
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: signal peptide
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198 Thr Val Ala Gln Ala
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204 <212> TYPE: PRT
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207 <220> FEATURE:
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216
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TIME: 12:07:40
               PATENT APPLICATION: US/09/449,631
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                Output Set: N:\CRF3\05092000\1449631.raw
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223 <211> LENGTH: 6
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
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228 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
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235 <210> SEQ ID NO: 17
236 <211> LENGTH: 6
237 <212> TYPE: PRT
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
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249 <211> LENGTH: 256
250 <212> TYPE: DNA
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253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence: Fos fusion construct
256 <400> SEQUENCE: 18
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259 ctgaccgaca ccctgcaggc ggaaaccgac caggtggaag acgaaaaatc cgcgctgcaa 180
260 accgaaatcg cgaacctgct gaaagaaaaa gaaaagctgg agttcatcct ggcggcacac 240
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264 <210> SEQ ID NO: 19
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 266 <212> TYPE: PRT
 8,67 <213> ORGANISM: Artificial Sequence
268 <223> OTHER INFORMATION: Description of Artificial Sequence: Fos fusion construct
270 <220> FEATURE:
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 272
274 Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile
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277 Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala
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 280 His Gly Gly Cys
 281
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 285 <210> SEQ ID NO: 20
 286 <211> LENGTH: 261
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RAW SEQUENCE LISTING

DATE: 05/09/2000

RAW SEQUENCE LISTING DATE: 05/09/2000 PATENT APPLICATION: US/09/449,631 TIME: 12:07:40

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Output Set: N:\CRF3\05092000\1449631.raw

Output Set. N. (chr 3 (030)2000 (244)3032.24

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  294 <220> FEATURE:
  295 <221> NAME/KEY: CDS
  296 <222> LOCATION: (22)..(240)
  298 <400> SEQUENCE: 20
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                                    Met Lys Lys Thr Ala Ile Ala Ile Ala Val
  300
                                                           5
                                       1
  301
  303 gca ctg gct ggt ttc gct acc gta gcg cag gcc tgc ggt ggt ctg acc 304 Ala Leu Ala Gly Phe Ala Thr Val Ala Gln Ala Cys Gly Gly Leu Thr 305 20 25
  307 gac acc ctg cag gcg gaa acc gac cag gtg gaa gac gaa aaa tcc gcg
308 Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala
309 30 40
                                                                                           195
  311 ctg caa acc gaa atc gcg aac ctg ctg aaa gaa aaa gaa aag ctg gag
  312 Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu
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  315 ttc atc ctg gcg gca cac ggt ggt tgc ggt ggt tct gcg gcc gct
316 Phe Ile Leu Ala Ala His Gly Gly Cys Gly Gly Ser Ala Ala Ala
317 60 65 70
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323 <211> LENGTH: 73
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  324 <212> TYPE: PRT
325 <213> ORGANISM: Artificial Sequence
326 <223> OTHER INFORMATION: Description of Artificial Sequence: Fos fusion
> 329 <220> FEATURE:
  329 <400> SEQUENCE: 21
  330 Met Lys Lys Thr Ala Ile Ala Ile Ala Val Ala Leu Ala Gly Phe Ala
  333 Thr Val Ala Gln Ala Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu
334 20 25 30
                    20
  336 Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala
337 35 40 45
  339 Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His 340 50 55 60
  342 Gly Gly Cys Gly Gly Ser Ala Ala Ala
  343 65
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  347 <210> SEQ ID NO: 22
  348 <211> LENGTH: 196
  349 <212> TYPE: DNA
  350 <213> ORGANISM: Artificial Sequence
  352 <220> FEATURE:
  353 <223> OTHER INFORMATION: Description of Artificial Sequence: Fos fusion
  354
              construct
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VERIFICATION SUMMARY

DATE: 05/09/2000

PATENT APPLICATION: US/09/449,631

TIME: 12:07:41

Input Set : A:\seq listing.txt

Output Set: N:\CRF3\05092000\I449631.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:270 M:258 W: Mandatory Feature missing, <220> FEATURE: L:329 M:258 W: Mandatory Feature missing, <220> FEATURE: L:385 M:258 W: Mandatory Feature missing, <220> FEATURE: C:385 M:258 W: Mandatory Feature missing, <220> FEATURE: C:385 M:358 W: Mandatory Feature missing, <220> FEATURE: C:385 M:358 M:3 L:474 M:258 W: Mandatory Feature missing, <220> FEATURE: L:533 M:258 W: Mandatory Feature missing, <220> FEATURE: L:753 M:258 W: Mandatory Feature missing, <220> FEATURE: